

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L6	16	((("5039191") or ("5596662") or ("5623564") or ("5848206") or ("5926594") or ("5970192") or ("6122423") or ("6169826") or ("6175675") or ("6219472") or ("6253011") or ("6275326") or ("6411765") or ("6526198") or ("6654523") or ("20020094151"))).PN.	US-PGPUB; USPAT	OR	OFF	2005/06/21 13:51
L8	9	((("6836583") or ("6807331") or ("6647168") or ("6694071") or ("6513380") or ("6690847") or ("6647170") or ("6370937") or ("6578420"))).PN.	US-PGPUB; USPAT	OR	OFF	2005/06/21 14:12
S1	4	((("6647168") or ("6694071") or ("6690847") or ("6647170"))).PN.	USPAT; USOCR	OR	OFF	2005/02/09 07:58
S2	99	("5815609" "4531809" "5361157" "6668107" "6445845" "5805320" "5659560" "6064787" "5473714" "5589975" "5887116" "5892859" "6571028" "6697548" "6694073" "4410238" "6057948" "6229932" "6347167" "6631222" "6714697" "5729642" "5013113" "5018129" "5177804" "5394491" "5455878" "5479552" "5491762" "5828800" "5841912" "5911018" "4359261" "4521069" "4761832" "4784451" "4787691" "4983006" "4995693" "4998791" "5247592" "5276748" "5367582" "5438444" "5443227" "5444802" "5488681" "5502779" "5504772" "5533151").pn. ("5546480" "5548671" "5581642" "5586206" "5623564" "5630004" "5652817" "5703710" "5732177" "5761352" "5781670" "5828801" "5852688" "5887089" "5917973" "6034800" "6122416" "6141466" "6186631" "6219472" "6219472" "4253728" "4304460" "4498730" "4608682" "4795225" "4813757" "4815803" "4852958" "4902087" "4932735" "4969720" "4982408" "5002354" "5004447" "5056885" "5044745" "5181134" "5185831" "5208880" "5369718" "5414548" "5583957" "5664034" "5706373" "5706383" "5754714" "5796886" "5808780" "5818983").pn.	USPAT	OR	OFF	2004/10/01 10:46

S3	16	((("4693547") or ("5235672") or ("5245458") or ("5757986") or ("5761350") or ("5828800") or ("5923798") or ("5990473") or ("6072924") or ("6137941") or ("6148124") or ("6205267") or ("5864643") or ("6137941") or ("5095519") or ("5727099") or ("6102582")).PN.	USPAT; USOCR	OR	OFF	2004/10/01 10:48
S4	1	("20020054748").PN.	US-PGPUB; USOCR	OR	OFF	2004/10/01 10:49
S5	6	("1004910").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2004/10/01 11:07
S6	0	((("6647168") or ("6694071") or ("6690847") or ("6647170")).PN.) and oblique	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/10/01 11:07
S7	4	((("6647168") or ("6694071") or ("6690847") or ("6647170")).PN.) and angle	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/10/01 11:07
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S10	27	("4229081" "4317611" "4580873" "4725127" "5042889" "5216490" "5579148" "5729642" "5808780" "5912608" "5923798" "5956292" "6005993" "6031947" "6049404").PN. OR ("6388789"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/02 15:58

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S12	16	("4693547" "5235672" "5245458" "5623564" "5757986" "5761350" "5828800" "5923798" "5990473" "6072924" "6137941" "6148124" "6205267" "6253011" "6275326" "6388789").PN. OR ("6690847").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/02 16:04
S13	15	("4693547" "5235672" "5245458" "5278692" "5357590" "5612815" "5757986" "5761350" "5828800" "5923798" "5990473" "6072924" "6137941" "6148124" "6205267").PN. OR ("6694071"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/02 16:04
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S19	16	("4607910" "4610504" "4998791" "5002354" "5024500" "5078514" "5454058").PN. OR ("5612815"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/09 08:42
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S24	7	("4401365").PN. OR ("5278692"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/09 08:56
S25	16	("4693547" "5235672" "5245458" "5623564" "5757986" "5761350" "5828800" "5923798" "5990473" "6072924" "6137941" "6148124" "6205267" "6253011" "6275326" "6388789").PN. OR ("6690847").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/09 08:58
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Day : Tuesday
Date: 6/21/2005

Time: 13:58:56

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Inventor Name Search Result

Your Search was:

Last Name = HSU

First Name = YING

Application#	Patent#	Status	Date Filed	Title	Inventor Name 50
<u>60581386</u>	Not Issued	020	06/22/2004	METHOD AND APPARATUS FOR BUILDING A SWITCHABLE DISCRETE OPTICAL FILTER AND OPTICAL ADD-DROP MULTIPLEXER	HSU, YING WEN
<u>60241762</u>	Not Issued	159	10/20/2000	METHOD FOR SWITCHING OPTICAL SIGNALS USING MICROSTRUCTURES	HSU, YING WEN
<u>60233672</u>	Not Issued	159	09/19/2000	METHOD FOR SWITCHING OPTICAL SIGNALS USING MICROSTRUCTURES	HSU, YING WEN
<u>60190271</u>	Not Issued	159	03/17/2000	METHOD FOR CANCELING QUADRATURE ERROR IN ANGULAR RATE SENSOR	HSU, YING WEN
<u>60188780</u>	Not Issued	159	03/13/2000	BALANCED FOUR PHASE DRIVE COMB METHOD	HSU, YING WEN
<u>60036759</u>	Not Issued	159	01/28/1997	MICRO WHELL GYROSCOPE FOR ANGULAR RATE SENSING	HSU, YING W.
<u>10988336</u>	Not Issued	030	11/12/2004	STRUCTURES THAT CORRECT FOR THERMAL DISTORTION IN AN OPTICAL DEVICE FORMED OF THERMALLY DISSIMILAR MATERIALS	HSU, YING WEN
<u>10965609</u>	Not Issued	041	10/13/2004	STRUCTURES THAT CORRECT FOR THERMAL DISTORTION IN AN OPTICAL DEVICE FORMED OF THERMALLY DISSIMILAR MATERIALS	HSU, YING WEN
<u>10912984</u>	Not Issued	030	08/05/2004	METHOD AND SYSTEM FOR FOCUS INDICATION OF IMAGE CAPTURE DEVICE	HSU, YING HAO
<u>10912832</u>	Not	020	08/05/2004	OUTPUT IMAGE CORRECTION	HSU, YING HAO

	Issued			METHOD	
<u>10873533</u>	Not Issued	030	06/18/2004	COLOR-CORRECTING DEVICE AND METHOD	HSU, YING HAO
<u>10844126</u>	Not Issued	020	05/11/2004	COLOR-CORRECTING DEVICE AND METHOD FOR IMAGE FORMING APPARATUS	HSU, YING HAO
<u>10840904</u>	Not Issued	020	05/07/2004	EDITING AND DISPLAY CONTROLLER USED IN PORTABLE DIGITAL IMAGE CAPTURE DEVICE AND METHOD OF THE SAME	HSU, YING HAO
<u>10815148</u>	<u>6836583</u>	150	03/30/2004	STRUCTURES THAT CORRECT FOR THERMAL DISTORTION IN AN OPTICAL DEVICE FORMED OF THERMALLY DISSIMILAR MATERIALS	HSU, YING WEN
<u>10752323</u>	Not Issued	041	01/05/2004	OPTICAL SWITCHING ELEMENT HAVING MOVABLE OPTICALLY TRANSMISSIVE MICROSTRUCTURE	HSU, YING WEN
<u>10676628</u>	Not Issued	071	09/30/2003	LOW LOSS OPTICAL SWITCHING SYSTEM	HSU, YING WEN
<u>10614576</u>	Not Issued	092	07/07/2003	ANTI-CORROSION SHOWER HEAD USED IN DRY ETCHING PROCESS AND METHOD OF MANUFACTURING THE SAME	HSU, YING-CHI
<u>10110889</u>	<u>6731121</u>	150	08/19/2002	HIGHLY CONFIGURABLE CAPACITIVE TRANSDUCER INTERFACE CIRCUIT	HSU, YING
<u>10072629</u>	<u>6807331</u>	150	02/08/2002	STRUCTURES THAT CORRECT FOR THERMAL DISTORTION IN AN OPTICAL DEVICE FORMED OF THERMALLY DISSIMILAR MATERIALS	HSU, YING WEN
<u>10052829</u>	<u>6647168</u>	150	10/19/2001	LOW LOSS OPTICAL SWITCHING SYSTEM	HSU, YING WEN
<u>10046416</u>	Not Issued	071	10/19/2001	1 X N OR N X 1 OPTICAL SWITCH HAVING A PLURALITY OF MOVABLE LIGHT GUIDING MICROSTRUCTURES	HSU, YING WEN
<u>09998867</u>	Not Issued	093	11/29/2001	METHOD AND APPARATUS FOR CHANGING THE OPTICAL INTENSITY OF AN OPTICAL SIGNAL USING A MOVABLE LIGHT TRANSMISSIVE	HSU, YING WEN

				STRUCTURE	
<u>09948179</u>	<u>6694071</u>	150	09/05/2001	METHOD AND APPARATUS FOR SWITCHING OPTICAL SIGNALS USING ROTATABLE OPTICALLY TRANSMISSIVE MICROSTRUCTURE	HSU, YING WEN
<u>09884880</u>	<u>6513380</u>	150	06/19/2001	MEMS SENSOR WITH SINGLE CENTRAL ANCHOR AND MOTION-LIMITING CONNECTION GEOMETRY	HSU, YING WEN
<u>09882807</u>	Not Issued	164	06/14/2001	ANGULAR RATE SENSOR HAVING A SENSE ELEMENT CONSTRAINED TO MOTION ABOUT A SINGLE AXIS AND FLEXIBLY ATTACHED TO A ROTARY DRIVE MASS	HSU, YING W.
<u>09837829</u>	<u>6690847</u>	150	04/17/2001	OPTICAL SWITCHING ELEMENT HAVING MOVABLE OPTICALLY TRANSMISSIVE MICROSTRUCTURE	HSU, YING WEN
<u>09837817</u>	<u>6647170</u>	150	04/17/2001	OPTICAL SWITCHING SYSTEM THAT USES MOVABLE MICROSTRUCTURES TO SWITCH OPTICAL SIGNALS IN THREE DIMENSIONS	HSU, YING WEN
<u>09816710</u>	Not Issued	161	03/23/2001	METHOD AND APPARATUS FOR ON-CHIP MEASUREMENT OF MICRO-GYRO SCALE FACTORS	HSU, YING W.
<u>09812147</u>	<u>6370937</u>	150	03/19/2001	METHOD OF CANCELING QUADRATURE ERROR IN AN ANGULAR RATE SENSOR	HSU, YING W.
<u>09808385</u>	Not Issued	161	03/13/2001	METHOD OF DRIVING MEMS SENSOR WITH BALANCED FOUR-PHASE COMB DRIVE	HSU, YING W.
<u>09604782</u>	<u>6578420</u>	150	06/26/2000	MULTI-AXIS MICRO GYRO STRUCTURE	HSU, YING WEN
<u>09550355</u>	Not Issued	161	04/14/2000	Z-AXIS MICRO-GYRO	HSU, YING WEN
<u>09388654</u>	<u>6120701</u>	150	09/02/1999	MICROENCAPSULATED LIQUID CRYSTAL AND A METHOD AND SYSTEM FOR USING SAME	HSU, YING YEN
<u>09301847</u>	<u>6089089</u>	150	04/29/1999	MULTI-ELEMENT MICRO GYRO	HSU, YING W.
<u>09189114</u>	Not	161	11/09/1998	COLOR LIQUID CRYSTAL	HSU, YING YEN

	Issued			DISPLAY USING GUEST-HOST MICROENCAPSULATED LIQUID CRYSTAL MATERIAL	
<u>09166458</u>	<u>5955668</u>	150	10/05/1998	MULTI- ELEMENT MICRO GYRO	HSU, YING W.
<u>09042394</u>	<u>6203723</u>	150	03/12/1998	MICROENCAPSULATED LIQUID CRYSTAL HAVING MULTIDOMAINS INDUCED BY THE POLYMER NETWORK AND METHOD	HSU, YING YEN
<u>08943305</u>	Not Issued	161	10/14/1997	MULTI-ELEMENT MICRO GYRO	HSU, YING W.
<u>08870812</u>	Not Issued	168	06/06/1997	MULTI-ELEMENT MICRO GYRO	HSU, YING W.
<u>08827574</u>	<u>6174467</u>	150	03/28/1997	MICROENCAPSULATED LIQUID CRYSTAL AND METHOD	HSU, YING YEN
<u>08686234</u>	Not Issued	161	07/23/1996	METHOD OF PRINTING AND SCANNING BY A FAX MACHINE	HSU, YING H.
<u>08376799</u>	<u>5701233</u>	250	01/23/1995	STACKABLE MODULES AND MULTIMODULAR ASSEMBLIES	HSU, YING
<u>06415072</u>	Not Issued	168	09/07/1982	LIQUID CRYSTAL ADMIXTURES INCLUDING DIOXANE COMPOUNDS	HSU, YING YEN
<u>06277796</u>	<u>4356104</u>	150	06/29/1981	4-SUBSTITUTED PHENYL 4-(5N- ALKYL-1,3-DIOXAN-2-YL) BENZOATES	HSU, YING YEN
<u>06212303</u>	<u>4313878</u>	150	12/03/1980	4-SUBSTITUTED PHENYL 4-(5- N-ALKYL-1, 3-DIOXAN-2-YL) BENZOATES	HSU, YING Y.
<u>06017634</u>	<u>4200580</u>	150	03/05/1979	DIOXANYLPHENYL BENZOATE LIQUID CRYSTAL COMPOUNDS	HSU, YING YEN

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Your Search was:

Last Name = HSU

First Name = YING

Application#	Patent#	Status	Date Filed	Title	Inventor Name 25
<u>11077204</u>	Not Issued	030	03/11/2005	LIQUID CRYSTAL DISPLAY AND THE DRIVING METHOD THEREOF	HSU, YING-HAO
<u>11037911</u>	Not Issued	030	01/18/2005	PORTABLE ELECTRONIC APPARATUS AND METHOD OF DYNAMIC DATA PROCESSING	HSU, YING-HAO
<u>10910966</u>	Not Issued	030	08/02/2004	METHOD FOR MANUFACTURING A WAX MOLD FOR A GOLF CLUB HEAD	HSU, YING-SEN
<u>10904571</u>	Not Issued	020	11/17/2004	DIGITAL IMAGE CAPTURING SYSTEM AND METHOD FOR CONTROLLING THE SIZE OF A CAPTURED IMAGE	HSU, YING-HAO
<u>10887088</u>	Not Issued	030	07/09/2004	LIQUID CRYSTAL DISPLAY DRIVER AND METHOD THEREOF	HSU, YING-HAO
<u>10678429</u>	Not Issued	030	10/03/2003	CHARGING DEVICE WITH OUTPUT INTERFACE OF UNIVERSAL SERIAL BUS	HSU, YING-HAO
<u>10657104</u>	Not Issued	030	09/09/2003	VIRTUAL SUBNET CONTROLLER AND CONTROLLING METHOD THEREOF	HSU, YING-TSAI
<u>10641022</u>	Not Issued	020	08/15/2003	AUTOMATIC ACCOUNT GENERATION SYSTEM AND PRINTER THEREFOR	HSU, YING-TSAI
<u>10604746</u>	Not Issued	030	08/14/2003	AUDIO PLAYER WITH LYRICS DISPLAY	HSU, YING-HAO
<u>10604532</u>	Not Issued	030	07/29/2003	PORTABLE NETWORK TRANSMISSION DEVICE	HSU, YING-TSAI
<u>10314771</u>	Not	030	12/09/2002	TESTING DEVICE FOR	HSU, YING-HAO

	Issued			AUTOMATIC EXPOSURE FUNCTION OF DIGITAL CAMERA	
<u>10252405</u>	Not Issued	092	09/24/2002	METHOD FOR VERSION RECORDING AND TRACKING	HSU, YING-WEI
<u>09930971</u>	Not Issued	041	08/17/2001	SYSTEM FOR DYNAMICALLY MONITORING THE STABILITY OF SEMICONDUCTOR MANUFACTURING EQUIPMENT	HSU, YING-WEI
<u>09910714</u>	6745142	150	07/24/2001	RECIPE COMPARISON SYSTEM	HSU, YING-WEI
<u>09810407</u>	Not Issued	161	03/19/2001	RECEPTACLE STRUCTURE FOR COMPUTER HARD-DISK	HSU, YING-HSI
<u>09790767</u>	6819362	150	02/21/2001	DISPOSITION DEVICE FOR AUTO-DETECTING THE HOLDING CONDITION OF A DIGITAL CAMERA	HSU, YING-HAO
<u>09790731</u>	6798173	150	02/21/2001	AUTOMATIC CHARGING DEVICE VIA A UNIVERSAL SERIAL BUS AND METHOD OF OPERATING THE SAME	HSU, YING-HAO
<u>09480269</u>	6477432	150	01/11/2000	STATISTICAL IN-PROCESS QUALITY CONTROL SAMPLING BASED ON PRODUCT STABILITY THROUGH A SYSTEMATIC MANAGEMENT OPERATION SYSTEM AND METHOD	HSU, YING-WEI
<u>08725966</u>	Not Issued	161	10/04/1996	CHAINS FOR DERAILLEUR	HSU, YING-CHIEH
<u>08089574</u>	Not Issued	161	07/12/1993	MEMORY MODULE CIRCUIT FOR DIGITAL SIGNAL PROCESSOR APPLICATION	HSU, YING-WEI
<u>07567268</u>	5128061	150	08/14/1990	PHENYL-PYRIMIDINE LIQUID CRYSTAL MATERIALS	HSU, YING-YEN
<u>06545017</u>	Not Issued	161	10/24/1983	LIQUID CRYSTAL ADMIXTURES INCLUDING DIOXANE COMPOUNDS	HSU, YING-YEN
<u>06422048</u>	4424371	150	09/23/1982	3-CHLORO-4-CYANOPHENYL 4'-SUBSTITUTED BENZOATES	HSU, YING-YEN
<u>06420168</u>	4490276	150	09/20/1982	LIQUID CRYSTAL ADMIXTURES INCLUDING CHLORO-CYANOPHENYL SUBSTITUTED BENZOATES	HSU, YING-YEN

06419655	4424372	250	09/20/1982	4-SUBSTITUTED PHENYL 4'-(5-N-ALKYL-1,3-DIOXAN-2-YL)THIOBENZOATES	HSU, YING-YEN
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Inventor Search Completed: No Records to Display.

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Inventor Name Search Result

Your Search was:

Last Name = TELKAMP

First Name = ARTHUR

Application#	Patent#	Status	Date Filed	Title	Inventor Name 12
<u>60643241</u>	Not Issued	020	01/11/2005	METHODS TO IMPROVE OPTICAL WAVEGUIDE DIRECTIONAL COUPLING EFFICIENCY	TELKAMP, ARTHUR R.
<u>60626836</u>	Not Issued	020	11/09/2004	METHODS TO IMPROVE OPTICAL WAVEGUIDE DIRECTIONAL COUPLING EFFICIENCY	TELKAMP, ARTHUR R.
<u>60581386</u>	Not Issued	020	06/22/2004	METHOD AND APPARATUS FOR BUILDING A SWITCHABLE DISCRETE OPTICAL FILTER AND OPTICAL ADD-DROP MULTIPLEXER	TELKAMP, ARTHUR RICHARD
<u>60556919</u>	Not Issued	159	03/26/2004	METHOD FOR CREATING LOW-LOSS, LOW-BACK-REFLECTION AIR GAPS IN MOVABLE OPTICAL WAVEGUIDE SYSTEMS	TELKAMP, ARTHUR R.
<u>60516250</u>	Not Issued	159	10/30/2003	METHODS TO IMPROVE OPTICAL WAVEGUIDE DIRECTIONAL COUPLING EFFICIENCY	TELKAMP, ARTHUR R.
<u>60485065</u>	Not Issued	159	07/07/2003	METHOD FOR CREATING LOW-LOSS OPTICAL WAVEGUIDE HALF-BRIDGE CROSSOVERS	TELKAMP, ARTHUR R.
<u>60467341</u>	Not Issued	159	05/01/2003	LOW-LOSS OPTICAL WAVEGUIDE CROSSOVERS USING AN OUT-OF-PLANE WAVEGUIDE	TELKAMP, ARTHUR
<u>10782481</u>	Not Issued	030	02/18/2004	LOW-LOSS OPTICAL WAVEGUIDE CROSSOVERS USING AN OUT-OF-PLANE	TELKAMP, ARTHUR

				WAVEGUIDE	
<u>10676628</u>	Not Issued	071	09/30/2003	LOW LOSS OPTICAL SWITCHING SYSTEM	TELKAMP, ARTHUR R.
<u>10052829</u>	<u>6647168</u>	150	10/19/2001	LOW LOSS OPTICAL SWITCHING SYSTEM	TELKAMP, ARTHUR R.
<u>10046416</u>	Not Issued	071	10/19/2001	1 X N OR N X 1 OPTICAL SWITCH HAVING A PLURALITY OF MOVABLE LIGHT GUIDING MICROSTRUCTURES	TELKAMP, ARTHUR R.

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- ☐ 1. Batch-micromachined, high aspect ratio Si mirror arrays for optical switching ap
Juan, W.H.; Pang, S.W.;
Solid State Sensors and Actuators, 1997. TRANSDUCERS '97 Chicago., 1997 Internat
on
Volume 1, 16-19 June 1997 Page(s):93 - 96 vol.1
[AbstractPlus](#) | Full Text: [PDF](#)(592 KB) IEEE CNF

- ☐ 2. Microstructure torque estimation using MEMS optical monitoring
Park, J.; Limin Wang; Dawson, J.; Hornak, L.; Famouri, P.;
Sensors, 2002. Proceedings of IEEE
Volume 2, 12-14 June 2002 Page(s):1746 - 1750 vol.2
[AbstractPlus](#) | Full Text: [PDF](#)(652 KB) IEEE CNF

- ☐ 3. Microoptoelectromechanical systems and frequency control
Lyshevski, S.E.; Lyshevski, M.A.;
Frequency Control Symposium and PDA Exhibition Jointly with the 17th European Fre
Forum, 2003. Proceedings of the 2003 IEEE International
4-8 May 2003 Page(s):837 - 844
[AbstractPlus](#) | Full Text: [PDF](#)(658 KB) IEEE CNF

- ☐ 4. A CMOS-MEMS mirror with curled-hinge comb drives
Huikai Xie; Yingtian Pan; Fedder, G.K.;
Microelectromechanical Systems, Journal of
Volume 12, Issue 4, Aug. 2003 Page(s):450 - 457
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(2411 KB) IEEE JNL

- ☐ 5. Conformal grating electromechanical system (GEMS) for high-speed digital light
Kowarz, M.W.; Brazas, J.C., Jr.; Phalen, J.G.;
Micro Electro Mechanical Systems, 2002. The Fifteenth IEEE International Conference
20-24 Jan. 2002 Page(s):568 - 573
[AbstractPlus](#) | Full Text: [PDF](#)(595 KB) IEEE CNF

- ☐ 6. Design & fabrication of out-of-plane electrostatic actuators for optical applicatio
Xiaohong Mu; Kahrizi, M.; Landsberger, L.;
Electrical and Computer Engineering, 2003. IEEE CCECE 2003. Canadian Conference
Volume 1, 4-7 May 2003 Page(s):133 - 136 vol.1
[AbstractPlus](#) | Full Text: [PDF](#)(385 KB) IEEE CNF

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1. Planar microoptomechanical waveguide switches

Bakke, T.; Tigges, C.P.; Lean, J.J.; Sullivan, C.T.; Spahn, O.B.;
Selected Topics in Quantum Electronics, IEEE Journal of
Volume 8, Issue 1, Jan.-Feb. 2002 Page(s):64 - 72[AbstractPlus](#) | [References](#) | Full Text: [PDF\(322 KB\)](#) IEEE JNL

IEEE STD IEEE Standard



2. Piezoelectric actuation of silica-on-silicon waveguide devices

Donati, S.; Barbieri, L.; Martini, G.;
Photonics Technology Letters, IEEE
Volume 10, Issue 10, Oct. 1998 Page(s):1428 - 1430[AbstractPlus](#) | [References](#) | Full Text: [PDF\(76 KB\)](#) IEEE JNL

3. Photonic crystal slab waveguide controlled by a micro-mechanical actuator

Iwamoto, S.; Yamada, H.; Gomyo, A.; Shirane, M.; Arakawa, Y.;
Lasers and Electro-Optics Society, 2003. LEOS 2003. The 16th Annual Meeting of the
Volume 2, 2003 Page(s):519 - 520 vol.2[AbstractPlus](#) | Full Text: [PDF\(256 KB\)](#) IEEE CNF

4. An SOI optical microswitch integrated with silicon waveguides and touch-down actuators

Young-Hyun Jin; Kyoung-Sun Seo; Young-Ho Cho; Sang-Shin Lee; Ki-Chang Song; Jc
Optical MEMS, 2000 IEEE/LEOS International Conference on
21-24 Aug. 2000 Page(s):43 - 44[AbstractPlus](#) | Full Text: [PDF\(252 KB\)](#) IEEE CNF

5. Mechanical electrostatically actuated optic switch for N x N cross-connect array

Shubin, I.; Wa, P.L.;
Lasers and Electro-Optics, 2001. CLEO '01. Technical Digest. Summaries of papers pr
Conference on
6-11 May 2001 Page(s):153 - 154[AbstractPlus](#) | Full Text: [PDF\(208 KB\)](#) IEEE CNF

6. A highly dense MEMS optical switch array integrated with planar lightwave circulators

Kanie, T.; Katayama, M.; Shiozaki, M.; Komiya, T.; Saitoh, K.; Nishimura, M.;
Micro Electro Mechanical Systems, 2002. The Fifteenth IEEE International Conference
20-24 Jan. 2002 Page(s):560 - 563[AbstractPlus](#) | Full Text: [PDF\(373 KB\)](#) IEEE CNF

- ☐ **7. An Integrated AWG multi/demultiplexer with MEMS-VOA shutters**
Ishikawa, K.; Yu, Q.;
Thermal and Thermomechanical Phenomena in Electronic Systems, 2004. ITherm '04. Intersociety Conference on
Volume 2, 1-4 June 2004 Page(s):523 - 528 Vol.2
[AbstractPlus](#) | Full Text: [PDF\(556 KB\)](#) IEEE CNF

- ☐ **8. Electrostatically actuated mechanooptical waveguide ON-OFF switch showing hysteresis at a low actuation-voltage**
Veldhuis, G.J.; Nauta, T.; Gui, C.; Berenschot, J.W.; Lambeck, P.V.;
Selected Topics in Quantum Electronics, IEEE Journal of
Volume 5, Issue 1, Jan.-Feb. 1999 Page(s):60 - 66
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(336 KB\)](#) IEEE JNL

- ☐ **9. MicroJoinery: micromachined translational stages for optomechanical devices and systems**
Gonzalez, C.; Collins, S.D.;
Solid State Sensors and Actuators, 1997. TRANSDUCERS '97 Chicago., 1997 International Conference on
Volume 1, 16-19 June 1997 Page(s):273 - 274 vol.1
[AbstractPlus](#) | Full Text: [PDF\(332 KB\)](#) IEEE CNF

- ☐ **10. GaAs-based microelectromechanical waveguide switch**
Spahn, O.B.; Sullivan, C.; Burkhart, J.; Tigges, C.; Garcia, E.;
Optical MEMS, 2000 IEEE/LEOS International Conference on
21-24 Aug. 2000 Page(s):41 - 42
[AbstractPlus](#) | Full Text: [PDF\(136 KB\)](#) IEEE CNF

- ☐ **11. A high performance 4x4 free-space fiber-optic crossconnection**
Liu, A.Q.; Zhang, X.M.; Lam, Y.L.;
Optical MEMS, 2000 IEEE/LEOS International Conference on
21-24 Aug. 2000 Page(s):37 - 38
[AbstractPlus](#) | Full Text: [PDF\(112 KB\)](#) IEEE CNF

- ☐ **12. A novel SOI Schottky electro-optical modulator for GHz high-speed switching**
Mazza, M.; Thevenaz, L.; Robert, P.; Declercq, M.J.; Ionescu, A.M.;
TRANSDUCERS, Solid-State Sensors, Actuators and Microsystems, 12th International Conference on
2003
Volume 2, 8-12 June 2003 Page(s):1490 - 1493 vol.2
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**PREVIEW**
this document**Projecting exposure apparatus and method of exposing circuit substrate**

12-Sep-2000

IPCOM000001750D

English

A scanning projection exposure apparatus having a projection optical system (11), for serially transferring a pattern on a reticle (7) onto a wafer (9) by exposure apparatus control the position and/or the tilt angle of such that the surface of the wafer ...

Result # 2 Relevance: ○○○○○○

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this document**Low Profile Active PCI Switching ASM**

2002-05-08

IPCOM000015793D

English

In today's highly competitive server market, package density is one of the major selling points of a server. Due to this, space above the package is being minimized. However, even with a dense package all of the components remain in the server. This includes Hot ...

Result # 3 Relevance: ○○○○○○

**PREVIEW**
this document**Track Access Method for Optical Disk Drive**

1993-05-01

IPCOM000104595D

English

Disclosed is a method for controlling Voice Coil Motors (VCM) with an optical pickup head in the optical disk drive in order to obtain a track access at the start of the track access. The disclosed method is applicable to any optical disk drive which ...

Result # 4 Relevance: ○○○○○○

**PREVIEW**
this document**Flexible Robotic Gripper**

1985-03-01

IPCOM000063238D

English

This article describes a flexible robotic mechanical gripper "hand" which can handle three different-sized electronic components in a testing machine. The disclosed gripper [hand], an end effector utilizing two "fingers", is small ...

Result # 5 Relevance: ○○○○○○

**PREVIEW**
this document**Hand Control Unit with Digital Interface**

1968-12-01

IPCOM000089852D

English

The system provides digital information related to the handle position. Control unit 10. Knob-shaped operator handle 11 is fixed to one end of a rod 12. Flat disk-shaped guide plate 13 is symmetrically fixed to rod 12 and is slidably mounted within stationary guide ...

Result # 6 Relevance: ○○○○○○

**PREVIEW**
this document**Automatic Focus Control for Head Alignment**

1986-05-01

IPCOM000060818D

English

This article describes an automatic focus control system which maintains an actuator lens focused on an alignment target despite small head movements. During alignment of an optical head, it is necessary to maintain ...

optical components are being adjusted. ...

Result # 7 Relevance: 



PREVIEW
this document

Shuttle Snap Action Key Module

1978-04-01

IPCOM000069385D

English

A snap-action switch actuator mechanism is described. The mechanism provides the various human factor requirements, such as gradual increase in the feel of force applied to the key top, sudden snap action when the key is depressed, produces a quick reduction in force, ...

Result # 8 Relevance: 



PREVIEW
this document

Push-Button Structure

1991-03-01

IPCOM000120120D

English

Described herein is a push-button structure for a power-on switch for an optical disk drive.

Result # 9 Relevance: 



PREVIEW
this document

Scanned Optical Keyboard

1978-02-01

IPCOM000068768D

English

A low-cost optical keyboard with selectively illuminable keys is described. In general, optical keyboards require multiple light sources and detectors for sensing key depressions at intersections in a matrix array. Typical prior art embodiments utilize one light source per row and ...

Result # 10 Relevance: 



PREVIEW
this document

Method of Air Bearing Surface Inspection for an Actuator Assembly

1991-02-01

IPCOM000119699D

English

Described is a device used to inspect the air bearing surface (ABS) of the heads at the actuator assembly level using axial illumination. The heads have been damaged or contaminated during the assembly process.

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Result # 11 Relevance: ○○○○○○

**PREVIEW**
This document**Needle-less Injection with a Degassed Fluid**

12-Sep-2002

IPCOM000009712D

English

Apparatuses and methods are described for administering a needleless injection of a degassed fluid. Prior to filling, or after filling but prior to administration of a needleless injection, gas is removed from the fluid. The needleless injection may then be performed with ...

Result # 12 Relevance: ○○○○○○

**PREVIEW**
This document**Optical Tachometer with Electronic Switch Circuitry**

1973-09-01

IPCOM000079854D

English

A system is described which produces a continuous electrical signal proportional to linear velocity over essentially infinite range. In proportionality constant (gain) has an exceptionally wide range of high-performance disk drives, which seek ...

Result # 13 Relevance: ○○○○○○

**PREVIEW**
This document**Intermediate Sensor**

1993-11-01

IPCOM000106595D

English

The Intermediate Sensor was an idea that was implemented because of a problem that developed with the Megamation/SGRT Robot (See Patent #91F1978, built by Megamation Inc.

Result # 14 Relevance: ○○○○○○

**PREVIEW**
This document**Electronic Tachometer for Linear Actuators**

1985-09-01

IPCOM000064934D

English

An electronic circuit is disclosed that will provide velocity feedback control servo systems employing linear actuators in place of rotary motors. The tachometer voltage is generated directly from an optical diffraction grating, or any position transducer ...

Result # 15 Relevance: ○○○○○○

**PREVIEW**
This document**Scanned Probe Microscope Workstation**

1995-12-01

IPCOM000116988D

English

Described is a hardware and software implementation of a Scanned Probe Microscope Workstation (SPMW). The SPMW utilizes a Scanned Probe Microscope (STM) [1] with a Scanning Proximity Microscope (SPM) probe [2] along with full programmability.

Result # 16 Relevance: ○○○○○○

**PREVIEW**
This document**Backlight Illumination Method for Robotics Applications**

1988-01-01

IPCOM000056647D

English

Using a light shield with relative motion to a camera lens provides backlighting at a camera-equipped robot hand, eliminates the need for a backlight table, and eliminates the need for the robot hand motion carrying the object to the backlighting ...

Result # 17 Relevance: 



PREVIEW
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High-Speed Opens And Shorts Substrate Tester

1991-05-01

IPCOM000120584D

English

Described is an assembly of custom-designed ceramic substrate fixtures which are combined with commercial devices to test su electrical opens and shorts at a high speed.

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Control of light propagation and localization in a photonic crystal slab by using a micromechanical actuator

 Satoshi Iwamoto, Hirohito Yamada, Akiko Gomyo,
Masayuki Shirane, and Yasuhiko Arakawa
Proc. SPIE Int. Soc. Opt. Eng. **5360**, 165 (2004)
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Electrostatically driven display device using evanescent coupling between sheet waveguide and multicantilevers

 Toshiaki Oguchi, Masanori Hayase, and Takeshi Hatsuzawa
Proc. SPIE Int. Soc. Opt. Eng. **5264**, 134 (2003)
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3. ☐

Recent advances in bubble-actuated photonic cross-connect switches

 Shalini Venkatesh, Jin-Woo Son, Julie E. Fouquet, Richard E. Haven, Dale Schroeder, Hua Guo, Wan Y. Wang, Paul Russell, Alan Chow, and Peter F. Hoffman
Proc. SPIE Int. Soc. Opt. Eng. **4654**, 27 (2002) PDF (929 kB)

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4. ☐

Integration process optimization of a micro-optical 1xN fiber optic switch

 Rolf Goering, Frank Wippermann, Kay Kubitz, Peter Buecker, and Bernt Goetz
Proc. SPIE Int. Soc. Opt. Eng. **3952**, 339 (2000)
PDF (2134 kB)

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James H. Smith, Richard F. Carson, Charles T. Sullivan,
and G. McClellan
Proc. SPIE Int. Soc. Opt. Eng. **2722**, 75 (1996) PDF (974
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6. ☐ **Integrated micro-opto-mechanical systems**
Francis L. Merat and Mehran Mehregany
Proc. SPIE Int. Soc. Opt. Eng. **2383**, 88 (1995) PDF (815
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Micromachined free-space integrated optics

Ming C. Wu, Lih-Yuan Lin, and Shi-sheng Lee
Proc. SPIE Int. Soc. Opt. Eng. **2291**, 40 (1994) PDF (634
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